

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P974754

Luminaire Tested: FLR2-24-72HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-72HE-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

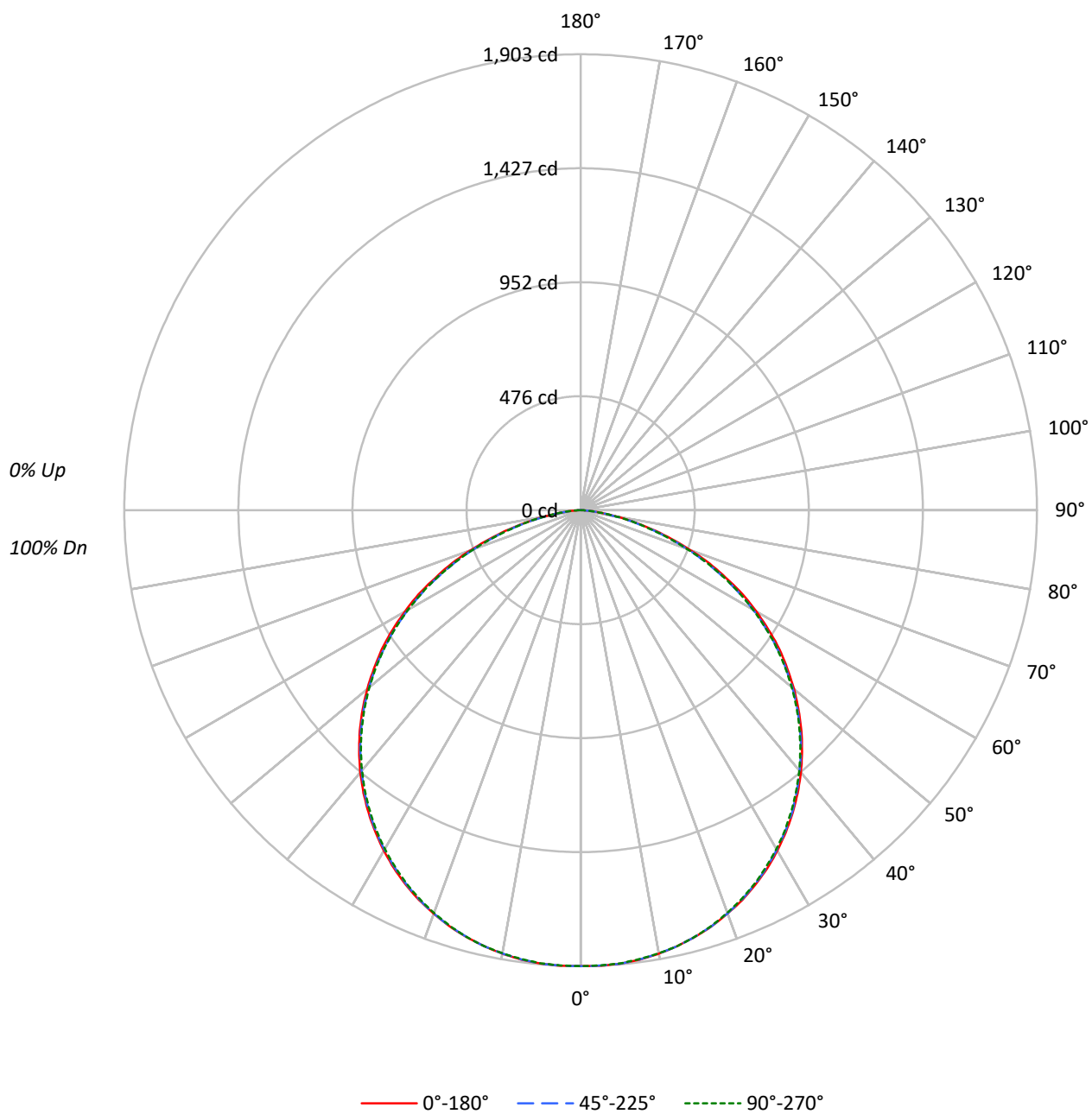
Lumens per Lamp: N/A
Luminaire Lumens: 5379.3 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2561	2561	2561
5°	2566	2566	2564
10°	2568	2567	2566
15°	2568	2567	2567
20°	2566	2565	2561
25°	2561	2556	2552
30°	2550	2542	2537
35°	2533	2526	2517
40°	2511	2495	2491
45°	2478	2464	2456
50°	2432	2413	2406
55°	2374	2340	2337
60°	2275	2235	2235
65°	2129	2079	2085
70°	1915	1856	1851
75°	1608	1544	1537
80°	1175	1117	1164
85°	664	611	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2478 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	3.4
10°-20°	520.5	9.7
20°-30°	793.5	14.8
30°-40°	961.4	17.9
40°-50°	998.7	18.6
50°-60°	893.4	16.6
60°-70°	651.1	12.1
70°-80°	322.5	6.0
80°-90°	57.6	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1494.7	27.8
0°-40°	2456.1	45.7
0°-60°	4348.1	80.8
0°-90°	5379.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5379.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1900	1901	1900	1900	1898	181
15°	1844	1843	1843	1845	1843	521
25°	1725	1723	1722	1721	1719	795
35°	1542	1540	1538	1535	1532	965
45°	1302	1300	1295	1292	1291	1004
55°	1012	1005	998	998	996	902
65°	669	663	653	656	655	663
75°	309	305	297	302	296	330
85°	43	40	40	40	40	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1903.3	1902.6	1902.6	1903.3	1901.9
5°	1899.9	1900.6	1899.9	1899.9	1898.5
7.5°	1892.4	1891.7	1891.0	1891.7	1889.6
10°	1879.4	1879.4	1878.7	1879.4	1878.0
12.5°	1863.7	1863.7	1863.7	1864.4	1863.7
15°	1843.9	1843.2	1843.2	1844.6	1843.2
17.5°	1820.7	1820.0	1820.0	1819.3	1817.9
20°	1792.0	1792.0	1791.3	1790.6	1788.6
22.5°	1761.3	1760.6	1758.5	1758.5	1755.8
25°	1725.1	1723.0	1721.6	1721.0	1718.9
27.5°	1685.5	1682.7	1680.7	1679.3	1677.3
30°	1641.1	1638.3	1636.3	1634.2	1632.9
32.5°	1593.3	1591.9	1588.5	1587.8	1585.1
35°	1542.0	1540.0	1537.9	1535.2	1532.5
37.5°	1487.4	1485.4	1480.6	1479.2	1477.2
40°	1429.4	1426.6	1420.5	1420.5	1418.4
42.5°	1367.2	1364.5	1360.4	1357.6	1356.3
45°	1302.3	1299.6	1294.8	1292.1	1290.7
47.5°	1233.4	1231.3	1225.8	1223.8	1221.7
50°	1161.7	1158.9	1152.8	1151.4	1149.4
52.5°	1086.5	1085.2	1077.0	1076.3	1074.2
55°	1012.1	1004.6	997.7	997.7	996.4
57.5°	930.1	924.7	915.8	915.8	914.4
60°	845.5	840.7	830.4	831.8	830.4
62.5°	762.8	752.6	743.0	747.1	743.7
65°	668.6	663.1	652.9	655.6	654.9
67.5°	582.5	572.3	562.7	568.2	565.5
70°	486.9	481.5	471.9	477.4	470.5
72.5°	396.8	392.0	382.4	388.6	381.8
75°	309.4	304.6	297.1	302.5	295.7
77.5°	226.7	223.3	216.5	221.9	223.3
80°	151.6	147.5	144.1	148.9	150.2
82.5°	88.8	86.0	84.7	85.4	88.8
85°	43.0	39.6	39.6	40.3	40.3
87.5°	11.6	10.2	11.6	12.3	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)